

INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC717-2-US	Serial No.: 10/500,936
Applicant: Ayrookaran J. Poulse	
Filing Date: March 25, 2005	Group: 1656
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US PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
A1 /WWW/	4,261,868	04-14-81	Hora et al.	252	529	08-08-79
A2 /WWW/	4,404,128	09-13-83	Anderson	252	546	05-29-81
A3 /WWW/	4,533,359	08-06-85	Kondo et al.	8	128 R	11-05-82
A4 /WWW/	5,147,642	09-15-92	Lotz et al.	424	94.61	12-05-89
A5 /WWW/	5,185,258	02-09-93	Caldwell et al.	435	220	10-19-90
A6 /WWW/	5,204,015	04-20-93	Caldwell et al.	252	174.12	10-09-92
A7 /WWW/	5,264,366	11-23-93	Ferrari et al.	435	252.31	11-25-91
A8 /WWW/	5,310,675	05-10-94	Estell et al.	435	320.1	12-10-91
A9 /WWW/	5,314,692	05-24-94	Haarasilta et al.	424	94.2	05-02-91
A10 /WWW/	5,316,941	05-31-94	Estell et al.	435	252.3	04-29-92
A11 /WWW/	5,441,882	08-15-95	Estell et al.	435	222	05-09-90
A12 /WWW/	5,567,601	10-22-96	Bryan et al.	435	222	09-20-94
A13 /WWW/	5,612,055	03-18-97	Bedford et al.	424	442	08-16-95
A14 /WWW/	5,665,587	09-09-97	Aaslyng et al.	435	221	06-07-95
A15 /WWW/	5,700,676	12-23-97	Bott et al.	435	221	06-07-95
A16 /WWW/	5,741,694	04-21-98	Hastrup et al.	435	227	06-07-95
A17 /WWW/	5,763,257	06-09-98	Bott et al.	435	221	06-07-95
A18 /WWW/	5,801,038	09-01-98	Bott et al.	435	221	06-07-95
A19 /WWW/	5,955,340	09-21-99	Bott et al.	435	221	06-07-95
A20 /WWW/	5,972,682	10-26-99	Bott et al.	435	221	03-14-94
A21 /WWW/	6,190,900	02-20-01	Sierkstra et al.	435	221	07-22-98
A22 /WWW/	6,197,567	03-06-01	Aaslyng et al.	435	221	03-12-97
A23 /WWW/	Re. 34,606	05-10-94	Estell et al.	435	222	07-20-90
A24 /WWW/	US 2003/0157645 A1	08-21-03	Kettling et al.	435	69.1	12-19-02

Examiner /William W. Moore/	Date Considered 10/24/2007

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PTO-1449

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FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
B1 /WWW/	EP 0 328 229 B2	30.10.1996	EP			
B2 /WWW/	0 134 267 B1	02.08.89	EP			
B3 /WWW/	0 251 446 B1	28.12.94	EP			
B4 /WWW/	WO 89/04552	18.05.89	PCT			
B5 /WWW/	WO 89/06279	13.07.89	PCT			
B6 /WWW/	WO 95/30010	09.11.95	PCT			
B7 /WWW/	WO 99/34011	08.07.99	PCT			
B8 /WWW/	WO 01/07484 A2	01.02.2001	PCT			

OTHER DOCUMENTS

Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.
C1 /WWW/	Copy of the International Search Report for PCT/US03/01447 mailed 13 January 2005.
C2 /WWW/	Copy of the Supplementary Partial European Search Report mailed 9 November 2005.
C3 /WWW/	Research Disclosure 21634.
C4 /WWW/	Achstetter et al., "New Proteolytic Enzymes in Yeast," <i>Archives of Biochemistry and Biophysics</i> , 207(2):445-454 (1981).
C5 /WWW/	Anagnostopoulos et al., "Requirements for Transformation in <i>Bacillus Subtilis</i> ," <i>J. Bacteriol.</i> , 81:741-746 (1961).
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Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.
C6 /WWW/	Dale, J. <i>Molecular Genetics of Bacteria</i> , John Wiley & Sons, Ltd., Appendix B (1989).
C7 /WWW/	DeIMar et al., "A Sensitive New Substrate for Chymotrypsin," <i>Analytical Biochemistry</i> , 99:316-320 (1979).
C8 /WWW/	**Kalisz et al., "Microbial Proteinases," <i>Advances in Biochemical Engineering/Biotechnology</i> , A. Fiechter ed., (1988). Book listed but not sent.
C9 /WWW/	Kraut, J., "Serine Proteases: Structure and Mechanism of Catalysis," <i>Ann. Rev. Biochem.</i> , 46:331-358 (1977).
C10 /WWW/	Naki et al., "Selection of a Subtilisin-hyperproducing <i>Bacillus</i> in a Highly Structured Environment," <i>Appl. Microbiol. Biotechnol.</i> , 49:290-294 (1998).
C11 /WWW/	Nedkov et al., "Die Primärstruktur von Subtilisin DY," <i>Hoppe-Seyler's Z. Physiol. Chem.</i> , 364, S. 1537-1540 (1983).
C12 /WWW/	Neidhart et al., "Culture Medium for Enterobacteria," <i>Journal of Bacteriology</i> , 119(3):736-747 (1974).
C13 /WWW/	Poulos et al., "Polypeptide Halomethyl Ketones Bind to Serine Proteases as Analogs of the Tetrahedral Intermediate," <i>Journal of Biochemistry</i> , 251:1097-1103 (1976).
C14 /WWW/	Robertus et al., "An X-Ray Crystallographic Study of the Binding of Peptide Chloromethyl Ketone Inhibitors to Subtilisin BPN," <i>Biochemistry</i> , 11(13):2439-2449 (1972).
C15 /WWW/	Siezen et al., "Homology Modelling and Protein Engineering Strategy of Subtilases, the Family of Subtilisin-Like Serine Proteinases," <i>Protein Engineering</i> , 4(7):719-737 (1991).
C16 /WWW/	Stauffer et al., "The Effect on Subtilisin Activity of Oxidizing a Methionine Residue," <i>The Journal of Biological Chemistry</i> , 244(19):5333-5338 (1969).
C17 /WWW/	Stroud R. M., "The Serine Proteases Act as Catalysts in Numerous Processes, From the Digestion of Food to the Clotting of Blood. They Have a Common Mode of Action and Apparently Evolved From a Common Ancestor," <i>Sci. Amer.</i> , 131:74-88.
C18 /WWW/	Svendsen, I., "Chemical Modifications of the Subtilisins with Special Reference to the Binding of Large Substrates. A Review," <i>Carlsberg Res. Commun.</i> , 41(5):237-291 (1976).
C19 /WWW/	Teplyakov et al., "Protein Engineering of the High-Alkline Serine Protease PB92 From <i>Bacillus Alcalophilus</i> : Functional and Structural Consequences of Mutation at the S4 Substrate Binding Pocket," <i>Protein Engineering</i> , 5(5):413-420 (1992).
C20 /WWW/	Wells et al., "Subtilisin – an Enzyme Designed to be Engineered," <i>TIBS</i> , 13:291-297 (1988).
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